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PRICE CONTROLS

For several months a favorite topic for conversation among businessmen, housewives, and the "man in the street" has been "Price Controls or How Am I Going To Be Affected by The Big Freeze?" In general we believe that the majority of thinking people agree that if this country is to operate for long on a more or less artificial basis without exposing the entire population to the dangers of a completely uncontrolled inflation the most direct way to preserve a semblance of sanity is to impose direct economic basis without exposing the entire population to the danger of a completely uncontrolled inflation the most direct way to preserve a semblance of sanity is to impose direct control of prices. In recent years many attempts have been made to "stablize" our economy by many means which, to the theoretical economist, have appeared to be quite logical solutions to the problems. Unforunately most of these solutions have resulted from study of the interrelation of the economic events of the past which, however interesting they may be in the abstract, do not necessarily bear the same relationship to each other in the actuality of today.

Most classic economic theories are based on the assumption that in a completely "free" economy certain forces will be constantly at work tending to keep the economy "in balance." If an outside force is brought to bear or if artificial weight is added to one of the existing forces the balance will be disturbed but eventually a new balance will be struck, reflecting the pressure of the new force which has been applied. Let it be remembered that neither the naturally "balanced" economy nor that resulting from externally applied pressure is of necessity that which is best for a majority of the people living under it. Under any economy certain groups will always seem to enjoy the "best of it" while others will be in a relatively less enjoyable position.

One difficulty in our present situation and its proper evaluation lies in the fact that we, like most other peoples of the world, have been living in an economy which, because of many and varied internal and external pressures,

has been drifting further and further from the "free" economy of the classicists. Thru government we try to correct certain "imbalances" by exerting a little artificial pressure here and there, usually finding that the result is about opposite to that intended because some artificial pressure imposed years ago has been overlooked in our calculations and has completely ruined any chance for success of our newest brainchild. In many other cases the failures result quite naturally but unpredictably from the perversity of human nature.

Regardless of the reasons it is a fact that the government's efforts to halt or slow down inflation, half-hearted tho they may have seemed to many, had little effect on the rising tide of prices and wages. The spiral was tightening and accelerating. Under these conditions we feel that the direct approach—direct price control—was the only path left open to a government with a huge aramament program to finance and with huge obligations to its own and other peoples. Certainly it was at last obvious that the time for experimental measures, based largely on highly theoretical premises, had long since passed.

The present price control regulations are broad and general, and are aimed at retailers, wholesalers and manufacturers of more or less standard commodities. As such they make it very difficult, if not impossible, for many "jobbing" manufacturers and other contractors to do business in a normal legitimate manner, without undue fear of running afoul of the law. However, we feel that the regulations must and will be promptly modified to correct inequities which currtntly exist and that, all factors considered, we are better off, on the whole, with regulations than without.

We must still, as a people, hope for the day when the need for such measures shall have passed, and can only pray that when that day arrives we can also abandon, forever, the many artificial measures, previously imposed, which have brought us so far from the "free" economy to which this country owes so much.

• • • —

The test of good manners is being able to put up pleasantly with bad ones.

THE PRESENT STATUS OF CROCIDOLITE ASBESTOS

By W. E. Sinclair, M. I. M. M.

South Africa no longer holds a monopoly in the production of Crocidolite asbestos, since Australia has appeared in the field.

This is headline news to most "Blue" producers in South Africa. To many, however, it is something of a surprise that the Australian output is little more than 1,000 tons annually.

Ten years ago accounts were circulated of the discovery and preliminary opening up of extensive crocidolite deposits in the Hammersley Range, situated in mid-West Australia. The geological reports, and the establishment of the Australian Blue Asbestos Mines Ltd. (Colonial Sugar Refining Co.) and other concerns to exploit the area, threatened the crocidolite industry in South Africa with a formidable competitor in the "Blue" market. Anyway, it was confidently considered in Australia that, by following Cape Asbestos mining methods, a substantial production of high grade crocidolite would soon be forthcoming, despite the inaccessibility of the Hammersley Range region.

About this time (1940) there commenced a gradual but steady build-up of the Blue Asbestos industry in South Africa, mainly because of the urgent need resulting from war requirements which in itself was the foundation of the following and present stable demand by industry for this class of fibre.

The Cape was the main producing field in 1940 and that year marked the switch-over, in that area, from the old contract system of tributing to orthodox mining methods and the firm establishment of a special milling technique. The main object of these sweeping innovations was to obtain increased outputs of standardised grades and to effect more efficient control of the productive effort. Following this, in ten years, "Blue" production in the Cape field was more than doubled, from about 5,500

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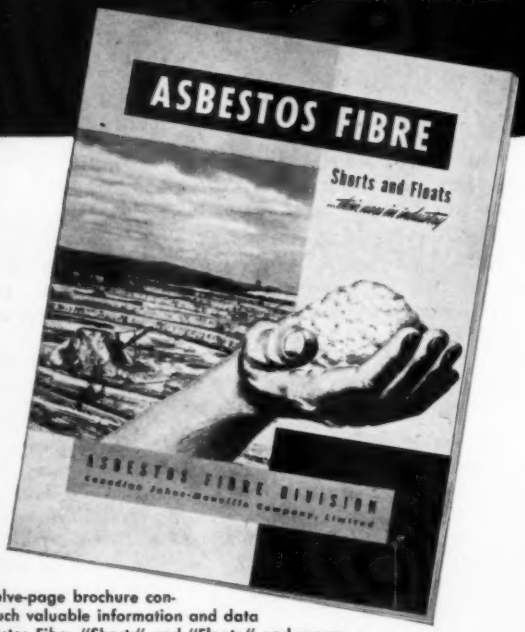

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tons in 1939 to over 12,000 tons in 1949.

Simultaneously the former sporadic tributing work on the "Blue" field near Pietersburg, in the Transvaal, developed into a period of increasing activity, which has resulted in a phenomenal jump in production from almost nil to nearly 10,000 tons of fibre annually. All this in a matter of ten years.

The South African crocidolite mines, in the aggregate, are now producing more than twice as much Blue fibre monthly (about 2,000 tons), as the Australian field produces in a year.

History of Crocidolite

Before considering the demand today for a class of fibre that took nearly fifty years to establish a niche in the world markets, it might be of interest to consider the essential qualities of this curious type of asbestos.

It is not really surprising that the lavender blue color of this fibrous mineral, encased in hard ironstone rock, attracted attention to the early explorers who first saw it. That was in 1803 and then again it was found in 1815. It was not until 1831, however, that the mineral was clearly defined and given the name "asbestoform crocidolite," from the Greek, meaning flaky or woolly stone.

It was only sixty years later (about 1893) and nearly fifty-eight years ago, that serious thought was given to the question of using the fibre in industry. This period saw the early development of the crocidolite deposits, but it was not until 1910 that the first actual production was officially recorded. It is strange to think that for the next thirty years the fate of this class of asbestos, as a useful commercial product, hung in the balance. This was mainly because of its color, its poor heat resisting qualities, and the prejudices of manufacturers using chrysotile asbestos. However, the valuable properties and characteristics possesssed by crocidolite, were ultimately proved to outweigh the adverse reports of the early users.

Blue fibre is mainly shorter than other varieties, averaging only ¼" to ¾". A small percentage of longer

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fibre, up to 1-½" is commonly found, and, very occasionally, lenticular pockets containing fibre an inch longer than this, are exposed. Its tensile strength, except in the case of some of the Transvaal Blue, is generally superior to Chrysotile, and also, the Blue fibre usually possesses greater elasticity and flexibility.

Some of the high lights in the commercial value of this asbestos is its superior resistance to acids, chemical solutions and sea-water, and it is generally accepted that it possesses special qualities in heat and electrical insulating requirements.

Uses of Crocidolite

It is understandable that, possessing these valuable properties, crocidolite would, sooner or later reach an elevated position in industry and to assume an important place in the manufacture of munitions of war.

To attain this position in war and industry it, nevertheless, had an uphill struggle. Its value in the supply of essential wartime requirements from 1939 to 1945 finally established its extreme usefulness in very many avenues in peacetime industry.

Certain grades of this fibre play an important part in the asbestos-cement industry, and because of its fibre strength and acid resisting qualities, it is used extensively in the manufacture of asbestos-cement pipes, besides other asbestos-cement products, and in millboard and sheeting.

The processed fibre is used in countless industries as yarn in cloths which serve in large measure in the manufacture of insulating materials and especially in pipe covering in sectional forms. Marine insulations absorb a large quantity of blue asbestos because of its property of being resistant to attack from sea water. Steam boiler mattresses and such insulating products are commonly used in naval vessels.

The exceptional tensile strength of certain crocidolite fibres makes it most valuable in those products requiring a binder, such as battery boxes and so on. It is also useful in smaller quantities as a filter medium, for the making of friction materials, fillers or compressed mouldings in

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Future Prospects

The rise in value of Blue asbestos production from about £350,000 to nearly one and a half million pounds in the past ten years may not be a sensational result when we consider the increase in the price of fibre today; the step-up in tonnage output to have made this possible, however, indicates the existence of substantial reserves of orebodies.

The banded ironstone formation in which the crocidolite fibre occurs as cross-fibre seams, consists essentially of hard, compact, siliceous, ferruginous slates and jasper rocks. This formation, except for some folding and faulting, is extant continuously in the Cape and the Transvaal for very many miles, with all the regular geological features maintained. Petrographically there are changes in the rocks, as there are in the strike and dip as a result of folding in places, which, to some extent, also affects the asbestos occurrences.

In certain stretches, the cross-fibre seams (albeit of short length and sometimes not more than one seam) may be traced for long distances, while in other parts, for many miles, no fibre appears where it should be, in the ironstone strata. This lack of persistency is frequently found in following the seams in from the out-crops; to add to the erratic existence, there are certain zones or areas where the fibre has undergone chemical and physical change, due mainly to silicification, which incidentally accounts for the existence of "tiger's eye" and the so-called "potential asbestos". As Griqualandite, or similar forms, the fibre occurs as a yellowish, powdery material, which like the siliceous varieties, is of no commercial value.

To maintain and increase Blue production to meet the increasing demands of manufacturers, thought should be given to the many unusual conditions and characteristics of the mineral, as explained in this short historical review, plus the more important aspect of the future development of the occurrences. These, obviously, require special and particular study, because of the extreme diff-

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ference of these deposits to others, and especially now that deeper underground mining, of the frequently meagre asbestos seams, has replaced the simple open quarry methods of earlier days., Efficient extraction of the Blue asbestos "reefs" calls for a specific mining technique unlike most others. Similarly, to satisfy the exacting requirements of manufacturers, a great deal more attention must be paid to the production of grades that are of uniform fibrous quality. The process of extracting the Blue fibre economically and efficiently from the hard encasing ironstone, presents an entirely different problem to that of milling crude fibre, the parent rock of which is fairly soft and friable, like the serpentine rock.

The bulk of the Blue output today consists of mill grades of fibre, and because of the extreme hardness of the gangue, extra care is necessary to prevent loss of fibre due to attrition in the milling process. This is but one of the important material variants in the extraction of crocidolite fibre, as compared with other more conventional systems of milling.

It is mainly by considering the practical aspect of these factors that the economic potential of crocidolite production in South Africa, in the future, can be visualized. The geological features of the Blue fields point to a certain reserve and, therefore, every possibility of increased production, but with steadily spiralling working costs, the price factor must ultimately control the future outlook.

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PNEUMATIC ENGINEERING PROBLEMS IN ASBESTOS FIBRE PRODUCTION

By M. I. Dorfan[1]

From the time that Asbestos ore leaves the min , until its conversion into "product" or "tailings", it is r cognized as a "materials handling" problem. Yet, it neither the rock, fibre, shorts, floats, etc. that is th major material handled. Only the engineer concerne knows that "AIR", that common gas which when dr weighs at sea level (29.922 inches of mercury) and a 60°F weighs 0.075 lbs. per cubic foot, is one of the majo materials handling problems in the milling of Asbestos.

An average "mill" such as found in or near th Thetford Mines area, generally produces 5 to 10% Asbestos of various grades of fibre from rock mined an handled. In order to "lift", i. e. elevate, separate, grad convey or transport this average production, there usually required between 250,000 to 400,000 cu. ft. of ai per minute. It is therefore of some interest to examin into "quantities" of material handled, both on a "volumet ric" and "weight" basis.

Using as a basis of comparison a dried rock weigh of 90# per cubic foot, and a fibre average of 20# pe cubic foot and a recovery of 5%, we have:

Material	Per 22 hr. Day		Per Hour		Per Minute	
	Tons	Cubic Ft.	Tons	Cubic Ft.	Tons	Cubic Ft.
Rock @90#	4000	88,889	181.82	4.040	3.03	67.36
Fibre @20#	200	20,000	9.09	9090	0.1515	151.5
Air @.075#	12,375	330,000,000	562.5	15,000,000	9.375	250,000
	21,600	576,000,000	900.0	24,000,000	15.0	400,000

What this means is:

For *every single ton* of rock mined and dried, there is handled in mill, 3.094 to 5.4 tons of air.

For *every single ton of average fibre* produced, there is handled 61.88 to 108 tons of air.

For *every single cubic foot of rock* dried, there i handled 3715 to 6470 cubic feet of air.

For *every single cubic foot of average fibre* produced

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there is handled 15,150 to 28,800 cu. ft. of air.

The average air situation is such that it is handled against approximately 10″ static pressure where cloth filters handle the air finally. Since basic power requirement is based on formula as follows:

$$\frac{0.000157 \times (\text{cubic feet per minute}) \times \text{Static pressure in inches of water}}{\text{Static Efficiency of Fan}} = \text{B.H.P.}$$

We have as average power conditions when using a forward pitched or radial blade fan situation the following:

$$\frac{0.000157 \times 250{,}000 \times 10''}{.57} = 688.\ \text{B.H.P.}$$

or:

$$\frac{0.000157 \times 400{,}000 \times 10''}{.57} = 1102.\ \text{B.H.P.}$$

which is clearly a very important part of materials handling problem in a mill.

• • • —

It must be remembered that, actually, the conditions vary from one mill to the other because of many facts that begin with:

a) the variation of fibre in ore.
b) the variation of milling characteristic of the rock, such as hardness, etc.
c) the variatfon of the milling charactertistic of fibre.
d) the variation of fibre desired.

There are other variables which result from weight-volume differentials of air which result from temperature humidity and barometric conditions which affect this highly variable "gas" that we know as "air". Further variables in "pneumatic" conditions in a mill are the result of rock drying practice and results.

With this introductory article, the author hopes to arouse the curiosity of the reader. In subsequent articles there will be discussed.

1 — "Hood" or Pickup practice
2 — Collectors—Banjo or Cyclone, and why?
3 — Velocities and Air Volumes required

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4 — (a) Fans — What kind and why?
(b) — How many?
(c) — Where located?
5 — Multi-pressure systems
6 — Final Air Cleaning Methods
7 — Horsepower savings; how made and maintained.

Should our readers wish to discuss other phases of this subject, they should indicate so to the Editor.

[1]President, Mechanical Industries, Inc., Pittsburgh, Pa.

HAWTHORN POWER STATION

Uses 85% Magnesia

The extraordinary growth of manufacturing in the Kansas City area during the last ten years brought an ever increasing demand for more electrical power. The Kansas City Power & Light Company met the need of constructing an immense new power generating plant to augment its two older plants. But long before the completion of this project further demands for power impelled the company to plan the erection of still another huge power producing unit to be built alongside the earlier one.

This new one is known as the Hawthorn power station, a steam-electric generating plant on the Missouri river near the Northeast Industral District and represents an investment of Forty Million Dollars.

At this new station the Kelley Asbestos Products Company of Kansas City furnished and installed all of the insulation (85% Magnesia and Tempehek) on steam piping from boilers to steam turbines, and also on auxiliary piping covering a total of about 5,000 lineal feet of piping in sizes from 1″ to 14″.

The April number of the "Purchaser," magazine of the Purchasing Agents Association of Kansas City, is mostly devoted to information on this Hawthorn Power Plant and includes a short article concerning insulation by J. F. Fleming, Manager of the Kansas City Branch of the Kelley Asbestos Products Company.

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AN ORIGINAL CALIFORNIA HOME REJUVENATED WITH "CALIFORNIA ORIGINALS" BY PABCO

Five miles from Santa Rosa, Calif., is one of the earl California farm houses, the exact age is not known e cept that more than seventy years have passed since t was built.

No doubt the early California farmer who firs made his home in this house was quite comfortable b standards of those days—was probably the envy of man a less fortunate tiller of the soil.

In recent years, however, the old house began t

Blasi Home, Santa Rosa before alterations, Holes at apex of roof and just above first floor gave access to bees and bats.

feel its burden of years and in outward appearance left much to be desired. The walls became the meeting place of bees, and having no belfry, belfry bats nested in the attic! Many people there were who said it should be torn down; replaced by a more modern structure, but that would be costly, and a family with vision decided to bring the old homestead back to life.

The Blasi family, who acquired this old California farm, at first paid little attention to their living quarters. They had to put in their crops—plant fruit trees; establish a vineyard. However, once this had been done and

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had begun to pay a financial return, they turned their attention to the comforts of life and decided something must be done to make their house reflect the improved state of their fortunes—nothing elaborate, yet neat and clean.

Fortunately they found a practical general contractor. He saw that the structure was sound and the basic plan was good. A reasonable expenditure would, with the help of modern building materials, make the transformation from old to new.

A few simple changes in the home were made. Windows were cut into the old attic, adding additional living area; new windows replaced old ones thruout. False dormers were introduced into the roof line, and an attractive portico was added to grace the entrance. Then came the use of modern building magic.

The contact decision of J. B. Rice Company, of Santa Rosa was called in and it was decided to use the Pabco "California Originals" lines of Roofing, Siding, Gypsum Wallboard and paint to effect the meta morphosis.

Pabco Gypsum Wallboard was applied to the interior

The same Blasi Home, after rejuvenation by Pabco "California Originals" building products and paint.

walls and rearranged partitions. Pabco "Whitest White" asbestos-cement siding made the exterior gleam, while grey asbestos-cement siding gave the proper architectural balance to the foundation portion. A Pabco "Grip-Tite"

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roof was installed over the leaking age-old cedar shingles —the interlocking feature providing long-lasting protection against wind or driving rain.

Finally, to complete the harmony of the exterior, Pabco "California Originals" paint was used on the exterior trim and the Blasi's had a home which was a real credit to the commnunity.

The point which made the sale of this job possible is that the general contractor and the sub-contractor insisted that a small amount of re-modelling had to be done. They knew that the materials would technically make the home liveable, but the addition of the upstairs windows, the false dormers and the portico made the home come awake after a long sleep.

BUILDING

The 37-state construction award total for March was $1,267,450,000 or 11 per cent higher than February but 3 per cent lower than March 1950's $1,300,201,000 figure. Non-residential contracts at $469,254,000 were 9 per cent ahead of February but 6 per cent behind March a year ago. Public and private works and utilities were $223,627,000 or 25 per cent more than February but 1 per cent less than March 1950. So reports the F. W. Dodge Corporation.

Three months totals for this year are running ahead of last year in dollar volume in all categories. Construction awards of $3,451,225,000 were 23 per cent higher than the 1950 three-month figure. Non-residential awards of $1,361,436,000 were 36 per cent more than the similar total for 1950. Residential contracts at $1,526,633,000 were up 19 per cent; public and private works and utilities amounting $563,156,000 were 6 per cent more than the corresponding 1950 total.

• • • —

Our doubts are traitors and make us lose the good we oft might win, by fearing to attempt.—*Shakespeare*

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MARKET CONDITIONS

GENERAL BUSINESS

Business news during April showed that production and employment were being sustained at high levels while a slackening was noted in both retail and wholesale buying. This is considered a healthy situation and indicates that, at least temporarily, the rush to buy goods in fear of future shortages has subsided. This relief of some of the inflationary pressures previously existing has led to quieter markets but the huge backlog of industrial business provides reasonable assurance that any general letdown in business activity for more than a short period is unlikely.

ASBESTOS — RAW MATERIAL

Production of crudes and fibres continues at peak levels, but demand, already in excess of production, continues to grow. Domestic users are, in general, receiving substantial quantities but in many cases they cannot obtain sufficient material for the tremendously increased production they would like to attain. Exports are heavy but demands from abroad are far from being met.

ASBESTOS — MANUFACTURED GOODS

Asbestos Textiles. Demand is heavy for all items and particularly for asbestos cloth. Should current conditions continue or should the defense program increase in scope many users for non-priority purposes will find their supplies sharply curtailed.

Brake Lining. This market continues at a high level. The rumored reduction in auto production has not yet occurred. With the greatest number of cars and trucks in history on the road there is no reason to forsee a letdown unless as a result of government edict which apparently is not yet necessary.

Asbestos Paper. Demand is fairly steady but some slowing down has been noted. Backlogs are being reduced. The market for Saturated Paper is steady.

Asbestos Millboard. Demand is not good but no large

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ASBESTOS PAPER

Pipe Covering & Blocks

Air Cell

Wool Felt

Anti Sweat

Anti Freeze

Sponge Felt

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Established 1920

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backlogs exit and the producers' capacity is probably somewhat in excess of current sales.

Insulation. High Pressure. Production continues to lag behind sales. Greater demand is predicted for the months ahead. Prices are firm.

Insulation. Low Pressure. The seasonal drop in demand for these products is now in full force. Some producers have little or no backlog. Prices are firm.

Asbestos Cement Products. The market for shingles has shown signs of weakening due to such factors as weather and the effect of various restrictive measures dealing with new building. Producers are looking forward to improvement in the fairly near future.

Asbestos cement pipes continue to find ready markets, in fact backlogs are increasing, due to wide use of the product by government agencies and in some degree to the shortage of metal pipes. Prices are firm.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

Cyprus

(From W. Parry James, A. C. S. M., Inspector of Mines)

	1st Quarter 1951		
	January	February	March
	Tons — 2000 lbs.		
Rock Mined	164	224	13,795
Rock Treated	164	224	4,217
Fibre Produced	104	23	20
Fibre Exported	286	20	146

Africa (Swaziland)

Production January 1951	2,750 tons (2000 lbs.)
Production February 1951	2,750 tons (2000 lbs.)
Production March 1951	2,750 tons (2000 lbs.)

LIGHT DENSITY TYPE
PABCO
PRECISION MOLDED
85% MAGNESIA INSULATION
"THE DEPENDABLE STANDARD—MODERNIZED"
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UP TO AND INCLUDING 18-INCH PIPE SIZE

COMPLETE RANGE OF SIZES AND THICKNESSES
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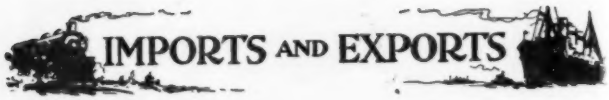
PABCO



Imports into U. S. A.

(Figures by Bureau of Census)

	January 1951 Tons (2240 lbs.
From Canada	59,046
S. Rhodesia	130
U. of South Africa	2,411
Bolivia	36
Australia	22
	61,645
Valued at	*$4,961,912*
By Grades:	
Crude No. 1, Chrysotile, S. Rhodesia	85
Crude No. 1, Chrysotile, U. of S. Africa	54
Crude No. 2, Chrysotile, Canada	11
Crude No. 2, Chrysotile, U. of S. Africa	67
Crude No. 2, Chrysotile, S. Rhodesia	45
Crude, Other, Chrysotile, Canada	147
Crude, Other, Chrysotile, U. of S. Africa	155
Crude, Blue, Bolivia	36
Crude, Blue, Australia	22
Crude, Blue, U. of S. Africa	447
Crude, Amosite, U. of S. Africa	1,688
Textile Fibres, Chrysotile, Canada	3,233
Shingle Fibres, Chrysotile, Canada	8,325
Paper Fibres, Chrysotile, Canada	5,945
Other Fibres, Chrysotile, Canada	41,385
	61,645

Manufactured Asbestos Goods:

	January 1951 Quantity (Lbs.)	Value
Asbestos Yarn		
United Kingdom	12,834	$11,319
Asbestos Packing — Fabric		
United Kingdom	178	204
Asbestos Packing — Not Fabric		
United Kingdom	652	534
Asbestos Woven Fabrics — Other		
Canada	271	196
Asbestos Brake Lining (Mld.)		
Canada	14	9
Mexico	7,000	2,472
United Kingdom	284	368

Mundet Cork Corporation

Insulation Division, 7101 Tonnelle Ave., North Bergen, N. J.

Mundet district offices are located in these cities:

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339-41 Elizabeth St., N.E.

BALTIMORE 30
612 Battery Ave.

BOSTON
57 Regent St., N. Cambridge 40

CHARLOTTE 3, N. C.
507 S. Cedar St.

CINCINNATI 2
427 West 4th St.

DALLAS 10
601 Second Ave.

DETROIT 21
14401 Prairie Ave.

HOUSTON 1
Commerce and Palmer Sts.

INDIANAPOLIS 4
15 E. Washington St.

JACKSONVILLE 6, FLA.
800 E. Bay St.

KANSAS CITY 7, MO.
1401 St. Louis Ave.

KNOXVILLE
1221 Grand Ave.

LOS ANGELES
(Maywood): 6116 Walker Ave.

In Canada:
Mundet Cork & Insulation, Ltd., 35 Booth Ave., Toronto

NEW ORLEANS 16
315-25 N. Front St.

NEW YORK 17
331 Madison Ave.

PHILADELPHIA 39
856 N. 48th St.

ST. LOUIS 9
3176 Brannon Ave.

SAN FRANCISCO 7
440 Brannon St.

Manufactured Asbestos Goods:

	January 1951 Quantity (Lbs.)	Value
Asbestos-Cement Products (Not Impreg.)		
Canada	970,827	39,69
Mexico	252,294	14,9
Asbestos-Cement Products (Impreg.)		
Canada	2,280	25
Asbestos Manufactures (Other)		
Canada		51
	1,246,634	$70,51

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	Year 1950 Tons (2240 lbs.)	Value
To United Kingdom	28	$ 7,52
South America	1,049	196,45
Central America and Mexico	768	130,45
Europe	10,663	2,265,51
Other Countries	4,368	1,019,48
	16,876	$3,619,42

Manufactured Asbestos Goods:

		Year 1950 Quantity	Value
Asbestos Pipe Covg. & Cement	Lbs.	2,286,288	$ 205,18
Asbestos Textiles & Yarn	Lbs.	646,631	456,71
Asbestos Packing	Lbs.	1,783,015	1,357,39
Asbestos Br. Lng. (M. & S. Mld.)	Lbs.	3,502,730	2,686,95
Asbestos Br. Lng. (Woven)	Lin. Ft.	532,358	342,54
Asbestos Clutch Facings	No.	1,055,685	577,03
Asbestos Brake Blocks	Lbs.	438,668	397,14
Asbestos Construction Matls.	Lbs.	25,850,279	1,755,14
Asbestos Manufactures — Other			333,80
			$8,111,92

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	January 1951 Tons (2240 lbs.)	Value
To United Kingdom	22	$ 11,00
South America	223	41,48
Central America and Mexico		
Europe	202	42,48
Other Countries	291	66,46
	738	$161,42

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Producers of

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Fiberized Asbestos

The World's Finest Fibre

DRAWER 71 **GLOBE, ARIZONA**

Mines and Mills in Gila Co., Arizona

Manufactured Asbestos Goods:

		January 1951 Quantity	Value
Asbestos Pipe Covg. & Cement	Lbs.	379,573	$ 30,59
Asbestos Textiles and Yarn	Lbs.	38,324	43,13
Asbestos Packing	Lbs.	187,004	148,62
Asbestos Brake Lng. (Mld.&S. Mld.)	Lbs.	576,492	465,35
Asbestos Brake Lng. (Woven)	Lin. Ft.	128,684	64,80
Asbestos Clutch Facings	No.	112,251	66,18
Asbestos Brake Blocks	Lbs.	59,674	45,51
Asbestos Construction Materials	Lbs.	2,091,302	162,26
Asbestos Manufactures — Other			48,63
			$1,075,16

Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos

	January 1951 Tons (2000 lbs.)	Value
Crude		
United States	25	$ 21,47
United Kingdom		
South America		
Central America and Mexico		
European Countries		
Other Countries		
	25	$ 21,47
Milled		
United States	17,513	2,424,68
United Kingdom	648	109,58
South America	2,958	504,40
Central America and Mexico	962	148,07
European Countries	3,611	580,91
Other Countries	486	64,09
	26,178	$3,831,75
Shorts		
United States	47,144	2,115,16
United Kingdom	1,809	57,22
South America	131	4,47
Central America and Mexico		
European Countries	1,970	127,16
Other Countries	248	15,03
	51,302	$2,319,06

ASBESTOS FIBRE

CRUDE NO. 1 CRUDE NO. 2

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HUMBOLDT 5-2372

Grand Total—		
Unmanufactured Asbestos	77,505	$6,172,30
Manufactured Asbestos Goods:		
Brake Lining		$41,25
Packing		9
Other Materials		39,41
		$80,77

Imports of Asbestos by United Kingdom

Raw Material

	March 1951 Tons (2240 lbs.
From Union of South Africa	1,179
Southern Rhodesia	4,355
Bechanaland and Basutoland and Swaziland	1,485
Canada	.....
Other Commonwealth Countries and Irish Republic	.....
Foreign Countries	20
	7,039

Of this, 7,039 tons, 4,856 were Chrysotile, and 2,183 other varieties. These figures were supplied by the Mining Journal Limited of London.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 25c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Growing Bench. No. 2,545,717. Granted on March 20, 1951 to Paul A. Voigt, Bellerose, N. Y. Assignor to Johns-Manville Corporation, New York. Application December 21, 1945. Serial No. 636,320.

Asbestos Containing Material. 2,546,474. Granted on March 27, 1951 to Pierre Pascal Peyrot and Pierre Jean Chevalier, Lyon, France, assignors to Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Application May 23, 1949, Serial No. 94,934.

Fire Retardant. No. 2,542,721. Granted on February 2[illegible], 1951 to Robert M. Stafford, Somerville, N. J. Assignor to Johns-Manville. Application January 25, 1947. Serial No. 724,465.

Brake Lining Thickness Indicator. No. 2,545,276. Granted

• BLUE ASBESTOS

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on March 13, 1951, to Carl Hagedorn, Everett, Wash. Applicati[on] October 7, 1946. Serial No. 701,853.

Making Insulation Bats and Boards. No. 2,546,266. Grante[d] on March 27, 1951 to William J. Kropp, Wichita, Kansas. Appl[i]cation October 20, 1948. Serial No. 55,632.

Friction Lining. No. 2,548,009. Granted on April 10, 1951 [to] Donald W. Fether, San Jose, Calif. Application December [8], 1947. Application December 18, 1947. Serial No. 790,337.

Manufacture of Normal Magnesium Carbonate. No. 2,549,40[0]. Granted on April 17, 1951 to Thomas C. Atchison, Princeton, N. [J.] Assignor to Johns-Manville. Application April 3, 1946. Seri[al] No. 659,343.

Structural Unit. No. 2,549,516. Granted on April 17, 195[1], to Robert E. Parry, Martinsville, N. J. Assignor to Johns-Manvill[e]. Application April 6, 1946. Serial No. 660,144.

WAGE RATE CHANGES

Wage rate changes for Asbestos workers (pipe and boile[r] coverers) as reported in the April number of the Asbesto[s] Worker (published quarterly by the International Associatio[n] of Heat and Frost Insulators and Asbestos Workers) are [as] follows:

Premerton, Wash. (Pudget Sound Navy Yard)	$1.86
Charleston, S. C. (Navy Yard)	1.72
Cleveland, Ohio	2.65
Evansville, Ind.	2.40
Freeport, Texas (Dow Chemical Co. Maintenance only)	2.19
Jacksonville, Florida	2.50
Lawrenceburg, Indiana (Distillery Plant Workers only)	2.19½
Long Beach, California (Navy Yard)	1.86
Mare Island (Naval Shipyard) Valleo, Calif.	1.89
Memphis, Tenn.	2.55
Newport News, Va. (Except Navy Yard)	2.37½
Norfolk, Va. (Except Navy Yard)	2.37½
Norfolk, Va. (Navy Yard)	1.74
Oak Ridge, Tenn. (Clinton Engr. Works, Maintenance only)	1.96
Philadelphia, Pa. (Navy Yard)	1.83
Portsmouth, Va. (Except Navy Yard)	2.37½
Richmond, Va.	2.37½
Rochester, N. Y.	2.65
San Francsico, (Naval Shipyard)	1.89
Sioux City, Iowa	2.37½
St. Louis, Mo.	2.83
Toledo, Ohio	2.65

• • • —

My interest is in the future, because I am going to spend the rest of my life there—Charles F. Kettering

• • • —

There is nothing truly great in man but character—*W. M. Evarts*

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NEWS OF THE INDUSTRY

BIRTHDAYS

Clifford F. Rassweiler, Vice Chairman of the Board, Johns-Manville Corporation, New York City, May 18.

David P. Seaman, Manager, Philip Carey Mfg. Co., New York City, May 24.

W. S. Lang, Vice President, Magnesia-Asbestos Insulation Co., Inc., New York City, May 25.

Geo. V. Hamilton, Owner, Geo. V. Hamilton Co., Pittsburgh, Pa., May 26.

Stephen Harrison, Owner, Asbestos Service Co., Youngstown, Ohio, May 26.

J. H. Mooney, Vice President, Johnson's Co., Thetford Mines, P. Q., May 27.

Giles Newton, Managing Director, Cape Asbestos Co., Ltd., London, England, May 27.

Stuart H. Ralph, Vice President and Director, The Flintkote Co., New York City, May 27.

F. E. Schluter, President, Thermoid Co., Trenton, N. J., May 31.

F. H. Shipe, President, Asbestos Covering & Roofing Co., Washington, D. C., May 31.

Charles H. Jackson, President, Turner & Newall, (Canada) Ltd., Montreal, P. Q., Canada, June 2.

Phil Ziegenfuss, President and Treasurer, Insulating Materials Co., St. Louis, Mo., June 2.

Norman C. Naylor, President, Union Asbestos & Rubber Co., Chicago, Ill., June 3.

Edward J. Ewald, Vice President, Standard Asbestos Mfg. Co., Chicago, Ill., June 6.

H. E. Howell, Vice President, Ehret Magnesia Mfg., Co., Valley Forge, Pa., June 8.

E. M. Railton, Vice President (in charge of Western Division) The Ruberoid Co., Chicago, Ill., June 8.

Manley Alsaker, Branch Manager, Kelley Asbestos Products Co., Omaha, Nebr., June 9.

Walker Jamar, President, Walker Jamar Co., Duluth, Minn., June 11.

Howard Snow, President, Southern Friction Materials Co., Charlotte, N. C., June 11.

Henry Condell, Owner, Asbestos Processing Co., 545 Fifth Ave., New York City., June 15.

We extend congratulations and best wishes to all these gentlemen on the occasion of their birthdays.

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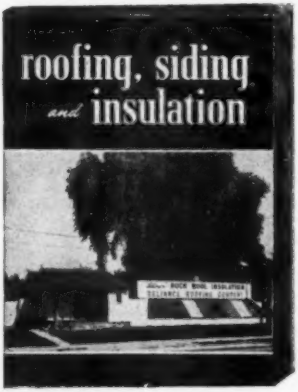

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JOHNS-MANVILLE
First Quarter Report

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the first quarter of 1951 were $6,292,995 compared with $3,928,551 for the corresponding period last year.

Sales for the first quarter of 1951 were $57,654,044, compared with $39,519,051 for the first quarter of 1950.

Earnings per share of common stock were $1.99 for the first quarter, compared with $1.29 for the first quarter last year.

Income and excess profits taxes for the first quarter were $5,862,311, compared with $1,773,017 last year.

BIRD & SON, INC.,
Adds Two Directors to their Board

Announcement is made of an increase in the membership of the Board of Directors of Bird & Son, Inc., from 15 to 17. The two new members are *Elwood T. Dickinson*, of Louis J. Hunter Associates, and *Jerome C. Hunsaker, Jr.*, of Colonial Management Associates.

Mr. Dickinson is a director of a number of concerns and assistant treasurer of the Massachusetts Memorial Hospitals. He is a graduate of Dartmouth, 1924 and the Amos Tuck School of Administration and Finance, 1925.

Mr. Hunsaker was in the Navy five years following his graduation from Harvard in 1938 and the Harvard Graduate School of Business Administration in 1940. He has been with Colonial Management Associates since 1946.

RAYBESTOS-MANHATTAN
Elects Officers

George W. Marshall, Jr., and *Alvin F. Heinsohn* have been elected as Vice Presidents of Raybestos-Manhattan.

Mr. Marshall has been sales manager of the company's Asbestos Products Division since 1947 and will continue to direct sales activities on asbestos brake linings, clutch facings, asbestos textiles, mechanical packings and powdered metal friction material. His headquarters are at the Company's plant at Manheim, Pa.

Mr. Heinsohn will be Vice President in charge of the company's General Asbestos & Rubber Division at North Charleston, S. C. He has been general manager of the North Charleston plant since 1944. Both Mr. Marshall and Mr. Heinsohn are directors of Raybestos-Manhattan, Inc.

Other elections announced were *W. Ward Kievit* of Passaic, N. J., Assistant Treasurer; *William H. White*, Assistant Secretary, Passaic, N. J., and *Charles J. Geilfuss*, Assistant Secretary, at North Charleston, S. C.

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RAYBESTOS-MANHATTAN TO ERECT
New Plant at Crawfordsville, Ind.

Raybestos-Manhattan has recently announced plans to erect a new plant in Crawdfordsville, Ind., to be named the Wabash Division of Raybestos-Manhattan, Inc.

UNIVERSAL ASBESTOS MFG. CO., LIMITED

Annual report (for year ending October 1st, 1950) has been received from The Universal Asbestos Mfg. Co. Limited, of Watford, England, and shows a consolidated profit, after provision for profits and income tax, of £36,095.

The annual meeting of the company was held on April 30, 1951 at 8 Upper Grosvenor Street, London, W 1.

In statement made by the Chairman, Frank W. R. Douglas, attention was called to the death during 1950 of Director, Mr. J. Townson Sly. Mr. Sly had been a director of the firm since it was first organized.

Newly appointed Directors during the past year are R. A. W. Caine, F. C. A., and Mr. D. Kirkness.

ARMSTRONG CORK PURCHASES
Asbestos Supply Companies

Armstrong Cork Company of Lancaster, Pa., has purchased the low and high-temperature insulation business assets of the Asbestos Supply Companies of Seattle, Spokane, Tacoma, Oregon and Alaska by the Armstrong Cork Company. The Armstrong Cork Company will carry on the business under its name.

The new business will be operated by Armstrong as a district office located in Seattle with branch offices in Portland, Spokane, Tacoma, and Anchorage, Alaska. A. J. Stream, formerly General Manager of the Asbestos Supply Companies will continue to manage the business as Armstrong District Manager located in Seattle. A. M. Fisher, formerly Assistant Manager of Armstrong's Building Materials Division New York Office, will now be Assistant Manager at Seattle.

AMERICAN BRAKE SHOE CO.

American Brake Shoe Company orders and shipments for the first quarter of 1951 exceeded those of any previous three months' period, William B. Given, Jr., chairman of the board, reported to stockholders at the annual meeting held April 24th. Sales for the first quarter amounted to $37,745,194 compared with $21,468,281 in the first quarter of last year. In the last quarter of 1950 sales were $34,880,290.

CHARLES KUHN, RAYBESTOS-MANHATTAN—Retires

Charles Kuhn oldest active employee of Manhattan Rubber Division, Raybestos, retires after fifty-seven years' service. He joined the company in March 1894 as an office boy.

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WALTER A. RuKEYSER

A very interesting article on Asbestos by Mr. RuKeyser appeared in February 1951 Annual Review Number of the Engineering and Mining Journal. Reprints of article may be obtained from the Engineering and Mining Journal, 330 West 42nd St. New York 18, price 15c each.

UNION ASBESTOS & RUBBER COMPANY

The Union Asbestos & Rubber Company recently acquired the business of Dromgold & Glenn, suppliers of refrigerating equipment of trucks, trailers and railroad refrigerator cars. The business will be operated as the Dromgold & Glenn Division under the direction of W. H. Fehrs, Union Asbestos vice president.

AUTOMOBILE SALES

	March 1951
Passenger Cars	617,399
Motor Trucks	136,794
Motor Coaches	829
	755,022

In March 1950 a total of 580,662 cars were sold. In the three months of 1951, January, February and March, the total was 1,980,176.

These figures were supplied by the Automobile Manufacturers Association, New Center Bldg., Detroit, Mich.

AFTERTHOUGHTS

¶It is really marvelous the variety of questions we are asked. Here are a few. Microphotographs of Cross Section of asbestos fibre, where could they be obtained. Books on the subject of the manufacture of asbestos paper. The percentage of asbestos-cement siding going on new construction and the percentage on old building. Use and application of Tremolite Asbestos. Use of Amosite and Blue asbestos in asbestos-cement manufacture. Then there are students who must write themes, on the subject. (Asbestos). We can send them our various reprints, but generally invite them to come to our office and dig out of our various reference files the information they need. It's impossible to send by letter the exact data needed—we might as well write the theme ourselves. But in every case we try to obtain the information, or the source of, from which it might be gotten.

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TAPES	PACKINGS

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TRADE MARKS

The M. S. Meem Company, Munsey Building, Washington D. C., has supplied the following information on trade marks pertaining to asbestos goods which have been recently passed for publication by the U. S. Patent Office. The firm mentioned above will conduct advance search without charge on trade marks our readers contemplate adopting.

Fibrespray Asbestos. Ser. No. 589.361. Acoustic, Inc. Philadelphia, Pa. Filed December 15, 1949. For asbestos fibre and Binder for Spraying in Place as Thermal Insulation and Spund Asorber.

Whittaker, with special drawings. Serial No. 557,484. Whittaker, Clark & Daniels, Inc., New York, N. Y. Filed May 20 1948. For Natural Minerals having a general use in the Industrial Arts—Namely, Aluminum Silicate, Aluminum Stearate ASBESTOS, Wet Ground Natural Calcium Carbonate, Barium Carbonate, Barium Sulfate, Barium Stearate, Barytes, Bentonite, Lamp Black Mineral and Oxide Blacks Blanc Fixe, Calcite, Colloidal Clays, Natural Earth Colors Crocus Martis, Diatomaceous Earth, Feldspar Fibrous Talc, Filtering Earths, Powdered Flint, Fuller's Earth, Powdered Graphite, Ground Glass, Powdered Gypsum, Hydrated Lime, Infusorial Earth, Iron Oxide, Kaolin, Kieselguhr, Lesamite Lime, Marble Ground Mica, Ochre, Paris White, Plaster Paris, Pumice Stone Pyrophylite Quartz, Red Oxide, Rottenstone, Sericite, Siennas, Silex, Silica Powdered Slate, Soapstone, Steatite, Terra Alba, Powdered Tripoli, Burnt Umbers, Powdered Venetian Red, Vienna Lime, Powdered Volcanic Ash, Yellow Oxide.

Carey. Serial No. 556,774, The Philip Carey Manufacturing Company, Cincinnati, Ohio. Filed May 11, 1948. For roofing composed in whole or in part of felted materials, wool felt, roofing paper, woven materials. Bituminous materials, compound of bituminous and other materials or a combination in whole or part of any two or more of said materials, prepared rolled roofing, prepared roofing shingles, prepared roofing strip, shingles, sheathing, papers, sound-deadening materials—namely asbestos, magnesia, rag felt, hair felt, cork, fibre, or a composition of two or more of said materials; Heat and cold insulating materials—namely—asbestos, magnesia, rag felt, hair felt, cork fiber, or a composition of two or more of said materials; Water-proofing Materials and damp-proofing materials—namely Saturated papers, saturated felts, saturated woven materials, composition boards or saturated felt and bituminous materials, saturated waterproof felts, expansion street-paving joints, expansion joints for cement work; street-dressing containing tar, asphalt, crude-oil, or oil-residuum, fireproofing cements, stove-lining cements.

• • • —

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BOOK LIST

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Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 4 pages. Supplement to Milling Asbestos. 25 per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

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Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Brake Linings of Various Types, By R. T. Halstead. Reprint (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.

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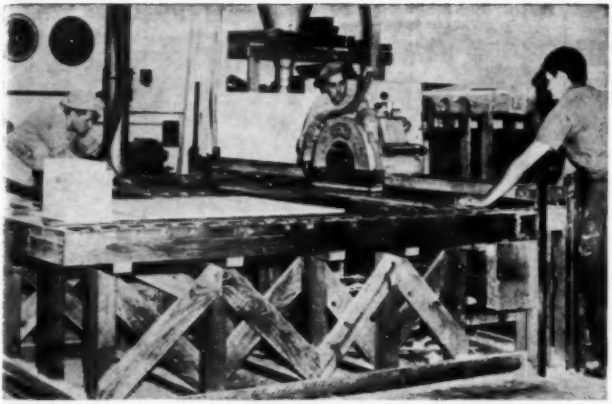

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	Per Ton (2000 lbs.) f.o.b. Mine
Canada—	
Group No. 1 (Crude No. 1)	$1,100.00 to $1,500.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	485.00 to 900.00
Group No. 3 (Spinning Fibre)	275.00 to 450.00
Group No. 4 (Shingle Fibre)	135.00 to 151.00
Group No. 5 (Paper Fibre)	95.00 to 119.00
Group No. 6 (Waste, Stucco or Plaster)	70.00
Group No. 7 (Refuse or Shorts)	32.00 to 63.00
Vermont—	
	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.
Group No. 4 (Shingle Fibre)	$122.65 to $148.50
Group No. 5 (Paper Fibre)	86.90 to 106.15
Group No. 6 (Waste, Stucco or Plaster)	64.90
Group No. 7 (Refuse or Shorts)	31.20 to 57.60

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee as to their Correctness).

		April 1951		
	Par	Low	High	Last
American Brake Shoe (Com.)	np	38¾	40½	39½
American Brake Shoe (Pfd.)	100	105	108⅝	108⅝
Armstrong Corp (Com.)	np	55¼	59	58¾
Armstrong Cork (Pfd.)	np	93¾	98	95¾
Armstrong Cork (Conv. Pfd.)	np	116	118½	117¼
Asbestos Corp. (Com.)	np	48¼	54½	54½
Asbestos Mfg. Co. (Com.)	1	1⅜	1⅜	1⅜
Carey (Com.)	10	18¼	18⅝	18⅜
Celotex (Com.)	np	16¾	17¾	16⅞
Celotex (Pfd.)	20	17	17¼	17⅛
Certainteed (Com.)	1	16¼	17⅜	16¾
Flintkote (Com.)	np	29⅞	31¾	30⅞
Flintkote (Pfd.)	np	99¼	103¼	100⅛
Johns-Manville (Com.)	np	56	59⅝	58¾
Pabco (Com.)	np	19¼	20¼	20
Pabco (Pfd.)	100	99½	102	102
Ray.-Man. (Com.)	np	35½	38⅞	37¼
Ruberoid (Com.)	np	55	59	58
Thermoid (Com.)	1	9	10¼	10⅜
Thermoid (Pfd.)	50	41¼	45½	45
Union Asbestos & Rubber (Com.)	5	12¼	13⅜	13⅜
United Asbestos (Com.)	1	98	105	.....
U. S. Gypsum (Com.)	20	116	122¾	122
U. S. Gypsum (Pfd.)	100	173	180	180
U. S. Rubber (Com.)	10	52½	60⅛	58⅞
U. S. Rubber (Pfd.)	100	135¼	139	137¾

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Now, due to Ehret's new plant and modernized processing equipment, you can get 85% Ehret Thermalite Magnesia insulation—pipe covering or block—that's unsurpassed in reducing heat loss. *Thermalite* is suitable for temperatures up to 600 F. and is available in semi-cylindrical sections for pipe sizes up to 18" diameter. While considerably lower in density and improved in insulating value, Ehret Thermalite 85% Magnesia remains exceptionally durable. It can be cut clean and applied evenly. Molded to final shape, it has a smooth surface. For complete details write for Bulletin 9-0.

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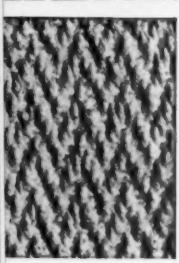
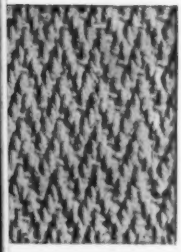
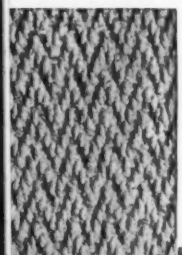
SOUTHERN ASBESTO

HERRINGBONE CLOTH







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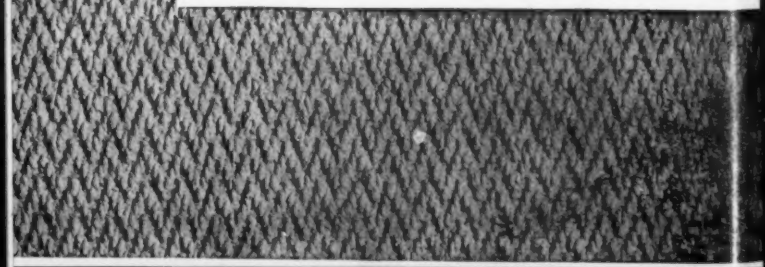

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